

**CLAIMS**

1. A rail seat which includes
  - a) a rail tie
  - 5 b) a pair of rail fastening support shoulders mounted on said rail tie so that a rail can be held to the tie between said shoulders each shoulder having a rail face and side portions on each side of said rail face extending away from the rail
  - d) a rail pad adapted to lie on said tie between said shoulders which has a  
10 pair of projections extending parallel to the tie along side each side portion of each shoulder.
  - e) an insulator having a post portion lying between the rail face of the support shoulder and the edge of the rail pad parallel to the edge of the rail.  
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2. A rail seat as claimed in claim 1 in which the support shoulder has a projection extending from each side portion against which a face of the rail pad projections abut to locate the pad in position to accommodate the post of the insulator.  
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3. A rail seat as claimed in claim 2 wherein the recess for the post of the insulator has a web which is a thin extension of the rail pad on which the deep post insulator seats.
- 25 4. A rail seat as claimed in claim 4 in which the projections on the rail pad are thickened in the vertical direction to provide a larger bearing surface on the sides of the support shoulder.

5. A rail seat which includes
- a) a rail tie
  - b) a pair of rail fastening support shoulders mounted on said rail tie so that a rail can be held to the tie between said shoulders each shoulder having a rail face and side portions on each side of said rail face extending away from the rail
  - c) a rail pad adapted to lie on said tie between said shoulders which has a pair of projections extending parallel to the tie along side each side portion of each shoulder and a resilient tab on each projection adapted to abut the side portions of said support shoulder to retain the pad in position between the support shoulders.
6. A rail seat which includes
- a) a rail tie
  - b) a pair of rail fastening support shoulders mounted on said rail tie so that a rail can be held to the tie between said shoulders each shoulder having a rail face and side portions on each side of said rail face extending away from the rail
  - c) a rail pad adapted to lie on said tie between said shoulders which has a pair of projections extending parallel to the tie along side each side portion of each shoulder the projections being proportioned to prevent the pad from moving out of position under the creep load conditions present when rail cars pass over the rail seat.
7. A rail seat as claimed in claim 6 in which the projections on the rail pad are thickened in the vertical direction to provide a larger bearing surface on the sides of the support shoulder.

8. A rail pad for use in a rail seat of claim 1 adapted to lie on a rail tie between rail fastening support shoulders which pad has a pair of projections extending parallel to the tie along side each side portion of each shoulder, the projections being proportioned to prevent the pad from moving out of position under the creep load conditions present when rail cars pass over the rail seat and a resilient tab on each projection adapted to abut the side portions of said support shoulder to retain the pad in position between the support shoulders during transportation of the rail seat.